

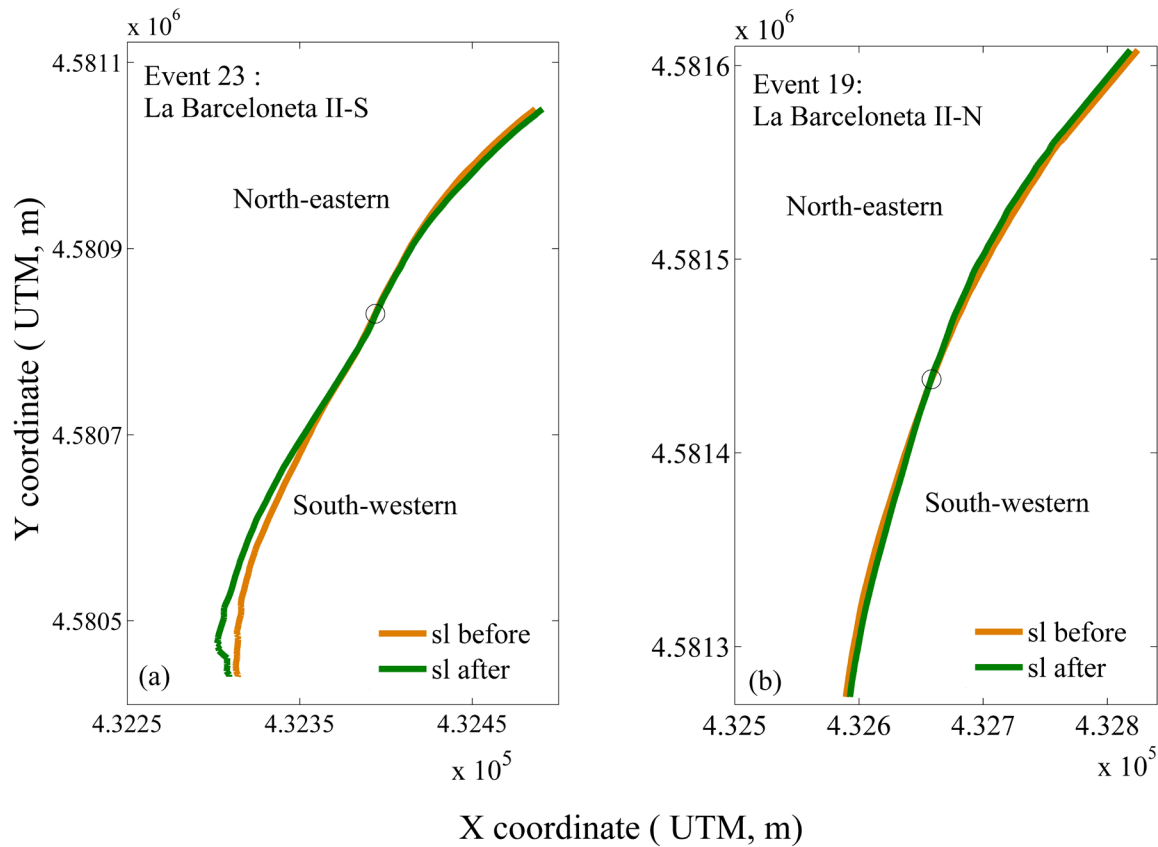
## Online electronic supplementary material

Storm-induced readjustment of an embayed beach after modification by protection works

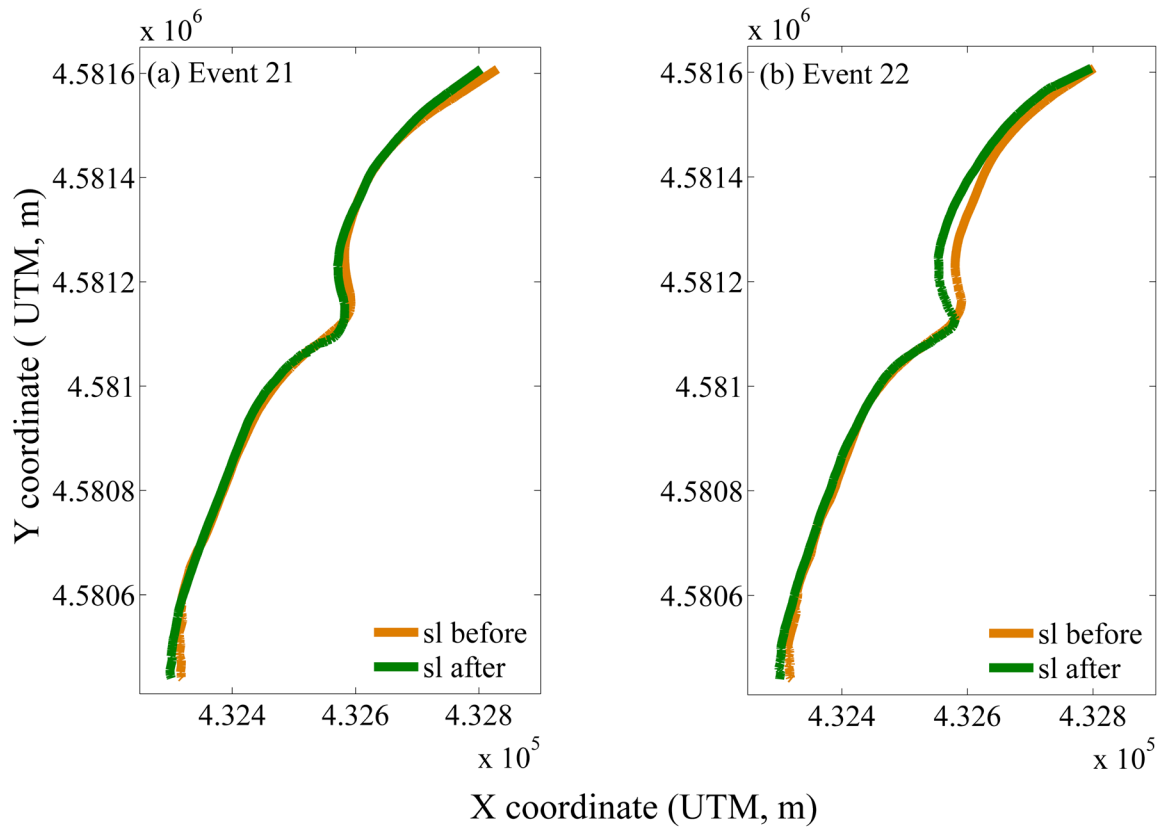
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**Fig. 1** Examples of beach rotation observed at La Barceloneta II beaches (post-breakwater situation) after storm events. *Orange and green lines* Shoreline (sl) position before and after each storm event respectively, *circles* location of pivot point. **a** Clockwise beach rotation of La Barceloneta II-S associated with event 23 (23 Jan. 2009). **b** Counter-clockwise beach rotation of La Barceloneta II-N associated with event 19 (25 Oct. 2007)



**Fig. 2** Examples of shoreline response observed at La Barceloneta II (post-breakwater situation) after storm events. **a** Event 21 (9 May 2008), associated with erosion at La Barceloneta II-N and at La Barceloneta II-S. **b** Event 22 (26 Dec. 2008), associated with erosion at La Barceloneta II-N and at La Barceloneta II-S. *Orange and green lines* Shoreline (*sl*) position before and after each storm event respectively